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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	. ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/719,802	11/21/2003	J. Rodney Walton	030422	3339	
	7590 01/24/2007 NCORPORATED		EXAMINER		
5775 MOREHOUSE DR.			KUMAR, PANKAJ		
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER	
•			2611	4	
<u></u>					
SHORTENED STATUTORY	PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVER	DELIVERY MODE	
31 DA	AYS	01/24/2007	ELECTI	RONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 31 DAYS from 01/24/2007.

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us-docketing@qualcomm.com kascanla@qualcomm.com t_ssadik@qualcomm.com

	•		•	el		
		Application No.	Applicant(s)	JI		
Office Action Summary		10/719,802	WALTON ET AL.			
		Examiner	Art Unit			
		Pankaj Kumar	2611			
	The MAILING DATE of this communication app	=		Iress		
	or Reply					
WHI(- Exte after - If NO - Failu Any	IORTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING Densions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period vure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ted patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MC a, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this cor ABANDONED (35 U.S.C. § 133).			
Status	,					
1)⊠	Responsive to communication(s) filed on 21 N	lovember 2002	•			
2a)□		s action is non-final.	•			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
	Claim(s) <u>1-52</u> is/are pending in the application					
-,23	4a) Of the above claim(s) is/are withdrawithd					
5)	Claim(s) is/are allowed.					
6)	Claim(s) is/are rejected.					
7)	Claim(s) is/are objected to.					
8)⊠	Claim(s) <u>1-52</u> are subject to restriction and/or	election requirement.				
Applicat	ion Papers		•			
9)[The specification is objected to by the Examine	er.				
	The drawing(s) filed on is/are: a) acc		by the Examiner.			
	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct	tion is required if the drawin	g(s) is objected to. See 37 CFI	R 1.121(d).		
11)	The oath or declaration is objected to by the Ex	caminer. Note the attache	ed Office Action or form PTC	O-152.		
Priority (under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a)	☐ All b) ☐ Some * c) ☐ None of:1.☐ Certified copies of the priority document	n have been received	•			
	2. Certified copies of the priority document		Application No			
	3. Copies of the certified copies of the prior			Stano		
	application from the International Bureau		·	claye		
* 5	See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	t received.			
Attachmen	ıt(s)		•			
	ce of References Cited (PTO-892)		Summary (PTO-413)	•		
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		(s)/Mail Date Informal Patent Application			
Pape	er No(s)/Mail Date	6) Other: _				

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-13, 37-41, drawn to steering vector being based on eigenvector, classified in class 375, subclass 338.
 - II. Claim 14-16, drawn to steering vector being independent, classified in class 375, subclass 285.
 - III. Claims 17-24, 42-52, drawn to steering vector being based on channel response matrix, classified in class 375, subclass 347.
 - IV. Claims 25-36, drawn to channel response vector being based on steering vector, classified in class 375, subclass 350.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I, II, III and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination of steering vector being based on eigenvector does not require the subcombinations of steering vector being independent or steering vector being based on a channel response matrix or channel response vector being based on a steering vector. The subcombinations have separate utility such as steering vector being independent or steering

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vector being based on a channel response matrix or channel response vector being based on a steering vector.

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- 3. The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.
- 4. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. A telephone call was made to Dmitry Milikovsky 858-845-0130 on December 2006 to request an oral election to the above restriction requirement, but did not result in an election being made.

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7. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

- 8. The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.
- 9. Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (571) 272-3011. The

examiner can normally be reached on Monday through Friday.

11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

12. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Harky Munry Pankai Kumar

Primary Examiner

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